

Title (en)

POLYSILOXANE URETHANE COMPOUNDS AND OPTICALLY TRANSPARENT ADHESIVE COMPOSITIONS

Title (de)

POLYSILOXANURETHANVERBINDUNGEN UND OPTISCH TRANSPARENTE KLEBSTOFFZUSAMMENSETZUNGEN

Title (fr)

COMPOSÉS D'URÉTHANE ET DE POLYSILOXANE ET COMPOSITIONS ADHÉSIVES OPTIQUEMENT TRANSPARENTES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2019104317A1] Disclosed is a terminally functionalized polysiloxane urethane polymer comprising: polysiloxane segments comprising from 50 to 98% by weight based on the total polymer weight; urethane segments comprising from 2 to 50% by weight based on the total polymer weight; and terminal functional groups selected from (meth)acrylate functional groups, isocyanate functional groups and mixtures thereof. The terminally functionalized polysiloxane urethane polymer finds use in liquid optically clear adhesive formulations wherein it can provide dual photo and moisture cure properties. In some embodiments cured reaction products of the liquid optically clear adhesive composition prepared with the terminally functionalized polysiloxane urethane polymer exhibit low haze of 2% or less and low yellowness b* values of 2 or less as prepared and after aging testing. In some embodiments cured reaction products of the liquid optically clear adhesive composition prepared with the terminally functionalized polysiloxane urethane polymer exhibit minimal shrinkage.

IPC 8 full level

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